340-370W

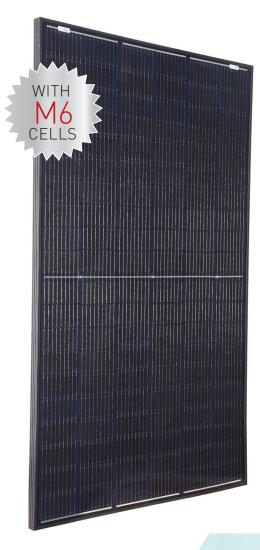
MAXIMUM EFFICIENCY %

POSITIVE POWER TOLERANCE WP

19.95

U~+4.99

MODULE TECHNOLOGY





CYLINDRICAL TABBING WIRE is used to reduce the shadow on cell active area



Implementation of bypass diodes in split JB seriesparallel connections enable the module to perform in PARTIAL SHADOW CONDITIONS with respect to fullcell module



HIGHER NUMBER OF BUSBAR makes the PV modules less prone to loss in efficiency and increase tolerance to micro cracks



FIELD RELIABILITY is improved due to multiple contact points on the cell which lowers the cell stress during module fabrication



LCOE IS CUT BACK by using M6 size solar cell with adding more power output than lower size cell module



LOWER INTERNAL RESISTANCE boosts module power helping to achieve minimal power loss with respect to previous variant modules



GREAT AESTHETICS FOR DARK ROOFS ALL BLACK module can increase the aesthetic value of your home with a more modern design







SUPERSTRATE SUBSTRATE









BLACK

GLASS



APPLICATIONS

- On-grid large scale utility systems
- On-grid rooftop industrial and commercial systems
- · Rooftop residential systems





TECHNICAL DATA

SOMERA 340-370W- ALL BLACK

THIS DATASHEET IS APPLICABLE FOR: SOMERA VSMHBB.60.AAA.05 (AAA=340-370)

Electrical Data^{1,2} All data refers to STC (AM 1.5, 1000 W/m², 25°C)

Peak Power P _{max} (Wp)	340	345	350	355	360	365	370
Maximum Voltage V _{mpp} (V)	34.5	34.6	34.6	34.7	34.7	34.8	34.9
Maximum Current I _{mpp} (A)	9.88	10.01	10.13	10.27	10.41	10.53	10.65
Open Circuit Voltage V _{oc} (V)	40.6	40.7	40.8	40.8	40.9	41	41.1
Short Circuit Current I _{sc} (A)	10.9	11.01	11.13	11.25	11.35	11.45	11.55
Module Efficiency η(%)	18.34	18.61	18.88	19.14	19.41	19.68	19.95

1) STC:1000 W/m² irradiance, 25°C cell temperature, AM1.5g spectrum according to EN 60904-3. | 2) Power measurement uncertainty is within +/- 2%.

Electrical Parameters at NOCT³

Power (W)	251.6	255.3	259.0	262.7	266.4	270.1	273.8
V@P _{max} (V)	31.9	32.0	32.0	32.1	32.1	32.2	32.2
I@P _{max} (A)	7.9	8.01	8.10	8.22	8.33	8.42	8.52
V _{oc} (V)	37.9	38.0	38.1	38.1	38.2	38.3	38.4
I _{sc} (A)	9.93	10.03	10.14	10.25	10.34	10.43	10.52

Temperature Coefficients (Tc) permissible operating conditions

Tc of Open Circuit Voltage (β)	-0.27%/°C
Tc of Short Circuit Current (α)	0.050%/°C
Tc of Power (γ)	-0.35%/°C
Maximum System Voltage	1500V
NOCT	45°C ± 2°C
Temperature Range	-40°C to + 85°C

Mechanical Data

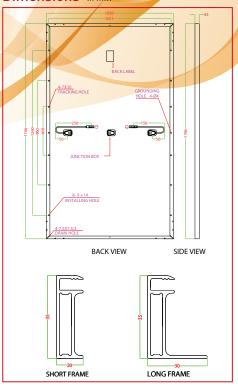
Length × Width × Height	1766 × 1050 × 35mm (69.52 × 41.33 × 1.38 inches)	
Weight	20.3 Kg (44.75 lbs)	
Junction Box	IP68, Split Junction Box with individual bypass diodes	
Cable & Connectors#	200 mm (+ve terminal) and 300 mm(-ve terminal) length cables,MC4 Compatible/MC4 Connectors	
Application Class	Class A (Safety class II)	
Superstrate##	3.2 mm (0.125 inches) high transmission low iron tempered glass, AR coated	
Cells	60 Mono PERC (120 half-cells) solar cells	
Back Sheet	Composite film	
Frame	Anodized aluminium frame with twin wall profile	
Mechanical Load Test	5400 Pa (Snow load), 2400 Pa (Wind load)	
Maximum Series Fuse Rating	20 A	

Warranty and Certifications

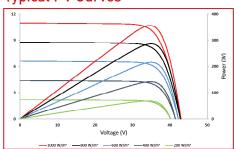
Product Warranty**	12 years
	Linear Power Warranty for 27 years with 2% for 1st year degradation and 0.55% from year 2 to year 27
Approvals and Certificates	IEC 61215 : 2016, IEC 61730 : 2016, IEC 61701, IEC 62716, IEC 60068-2-68^, IEC 62804, CEC (California), UL 61215, UL 61730, CAN-CSA, CE

^ All (^) certifications under progress. | ** Refer to Vikram Solar's warranty doct 1200mm (47.24 inches) cable lengths are also available |** Anti-glare Glassif also

Dimensions in mm



Typical I-V Curves4



4) Average relative efficiency reduction of 5% at 200 W/m² according to EN 60904-1.

Performance Warranty



Packaging Information

Quantity /Pallet	31
Pallets/Container (40'HC)	26
Quantity/Container (40'HC)	806

CAUTION: READ SAFETY AND INSTALLATION MANUAL BEFORE USING THE PRODUCT.

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